THE OZONE OAT CHARTER

Background

The Operational Algorithm Teams (OATs) were established by the Integrated Program Office (IPO) as scientific advisory groups for the IPO during the source selection phases of the NPOESS instrument suites and subsequent contractor activities. The Ozone OAT (OOAT) played an active advisory role during the beginning of the Ozone Mapper and Profiler Suite (OMPS) program.

Early Ozone OAT Activities

During the Source Selection and Phase I Development of the OMPS, the OOAT was heavily involved, both formally and otherwise, in reviewing and evaluating the contractor's original proposal submittals and their responses to IPO concerns following the individual system reviews. OOAT members also participated in IPO-contractor algorithm review meetings in a technical advisory role to the government team.

Future Ozone OAT Activities

The OOAT will be a scientific advisory group to the IPO through delivery and post-launch phases of the OMPS. In this critical role, the OOAT will act as a technical and scientific advisor over the detailed design and fabrication activities and provide sound experienced input into testing, calibration and post-launch validation activities. With the fluid nature of a multi-agency program and the decades-long lifetime history of current instrument series, the OOAT will provide the continuity necessary to provide the scientific support to maintain a credible system. Equally critical will be a role in providing an independent review and test of any proposed retrieval algorithm to verify its capability to produce all design Environmental Data Records (EDRs). These activities may include evaluating the expected performance, identifying problem areas, reviewing other relevant research areas and performing studies on related problems. Other OOAT efforts may include the following:

1. The OOAT will support the IPO in an advisory role through the procurement and post-launch phases to ensure that the OMPS will perform as designed. It will be important for the OOAT members to have an understanding of the efforts needed to derive long-term, credible data sets covering testing, calibration, post-launch verification of instrument behavior, validation of data products and data-set reprocessing.
2. The OOAT membership should include expertise in science data trending analysis, long-term stability analysis, sensor designs, calibration and validation issues and any other appropriate disciplines. The OOAT should have the ability to advise the contractor on problems with, and potential improvements to the system especially for the retrieval algorithms. The OOAT should coordinate with other science activities as appropriate. The OOAT will be able to communicate with the contractor on critical science and engineering problems without having to pre-schedule a formal review. Ad hoc meetings may be held, but all interactions with the contractor must be arranged/acknowledged through the IPO.
3. The IPO will provide the required funding/support needed by the OOAT members when called upon to study and assist in the resolution of problems uncovered during any reviews. (i.e. Inter-Government Studies)
4. The OOAT will review any contractor plans for post-launch validation of data products. The OOAT would recommend if any further actions would be required to ensure a sufficient validation plan.
5. The OOAT will perform any other responsibilities assigned by the IPO or needed as specific

scientific issues arise during the program duration.

6. The OOAT will maintain an appropriate interaction with the international ozone research and operational communities throughout the fabrication and flight of the OMPS as appropriate.

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